

Appl. No. 10/620,117
Amdt. dated April 10, 2006

Reply to Office Action of January 27, 2006
Attorney Docket 12618

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for unloading grain from a grain tank of an agricultural combine, comprising:
 - a) an unloading conduit assembly for unloading grain from the combine into a grain truck or the like displaced horizontally from the grain tank, the combine having a longitudinal axis;
 - b) said unloading conduit assembly including a vertical conduit and a horizontal conduit mounted on top of said vertical conduit, said horizontal conduit having an extent greater than an extent of said vertical conduit;
 - c) said vertical conduit being mounted on the combine for rotational movement of at least a portion of the vertical conduit about its vertical axis;
 - d) said vertical conduit also being mounted on the combine for sideways pivoting of at least a portion of the vertical conduit about a horizontal pivot axis to permit retracting said horizontal conduit into a storage position on one side of said tank, wherein the horizontal pivot axis is parallel to the longitudinal axis of the combine; and
 - e) said unloading conduit assembly configured to unload grain through the horizontal conduit to the grain truck located anywhere along an entire radial circumference of the unloading assembly relative to the vertical axis of the vertical conduit.
2. (Previously Presented) The unloading system of Claim 1 further characterized in that:

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a) said vertical conduit having a length extending from at least a top of the grain tank and mounted on the combine for rotation of the entire vertical conduit about said vertical axis.

3. (Previously Presented) The unloading system of Claim 2 further characterized in that:

a) said vertical conduit is mounted on the combine for sideways pivoting of the entire vertical conduit about said horizontal pivot axis.

4. (Currently Amended) A system for unloading harvested product from an agricultural combine, comprising:

a) an unloading conduit assembly for unloading product into a truck or the like located on any radius horizontally around the combine;

b) said unloading conduit assembly including a vertical conduit extending upwardly out of the top of a storage tank and a horizontal conduit extending radially from said vertical conduit, said horizontal conduit having an extent greater than an extent of said vertical conduit, said vertical conduit includes a lower section, an intermediate section and an upper section, said intermediate and upper sections being rotatable relative to said lower section about an axis common to said upper section, said intermediate section, and said lower section, wherein said upper section is mounted on said intermediate section for pivoting movement about said horizontal pivot axis;

c) said vertical conduit being mounted in the tank for sideways pivoting of at least a portion of the vertical conduit about a horizontal pivot axis to permit retracting said horizontal conduit into a storage position rested on top of the grain tank of the combine.

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5. (Cancelled)

6. (Cancelled)

7. (Original) The unloading system of Claim 4 further characterized in that:

a) said vertical conduit is pivotable in its entirety about said horizontal pivot axis.

8. (Currently Amended) An agricultural combine including a threshing assembly for supplying grain to a grain tank and a system for unloading grain from said combine, the system comprising:

a) a loop conveyor assembly for conveying grain from said threshing assembly to an unloading conduit assembly;

b) said unloading conduit assembly including an unloading conduit, said unloading conduit includes a vertical conduit extending upwardly out of the top of a storage tank and a horizontal conduit extending radially from said vertical conduit, said unloading conduit configured to receive grain from said loop conveyor and convey the grain to a truck or the like located at any radial position around a perimeter of the combine relative to a vertical axis of the vertical conduit, said vertical conduit being mounted in the grain tank for sideways pivoting of at least a portion of the vertical conduit about a horizontal pivot axis to permit retracting said horizontal conduit into a storage position below the level of the top of the grain tank;

c) said unloading conduit including a horizontal conduit which is retractable into an inoperative, stored position rested on a left or right side of the grain tank relative to a forward direction of travel of said combine.

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9. (Cancelled)

10. (Previously Presented) The unloading system of Claim 1, further comprising:
an auger located in said horizontal conduit.

11. (Previously Presented) The unloading system of Claim 1, further comprising:
a hinge joint pivotally coupling a first portion of the vertical conduit to a remaining
portion of the vertical conduit.

12. (Previously Presented) The unloading system of Claim 1, wherein said unloading
conduit including a horizontal conduit which is retractable into an inoperative, stored position
rested on a shelf formed into a left or right side of the grain tank of said combine relative to a
direction of travel of the combine.

13. (Previously Presented) The unloading system of Claim 12, wherein the shelf is
formed into a left or right side of the grain tank relative to the direction of travel of the
combine.

14. (Previously Presented) The unloading system of Claim 1, further characterized in that
said vertical conduit having a length extending from at least a top of the grain tank and
mounted on the combine for rotation of the entire vertical conduit about said vertical axis.

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15. (Previously Presented) The system of Claim 4, wherein said horizontal conduit in the storage position rests on a shelf formed into a left or right side of the grain tank of the combine relative to a forward direction of travel of the combine.

16. (Previously Presented) The unloading system of Claim 15, further comprising:
a hinge joint pivotally coupling a first portion of the vertical conduit to a remaining portion of the vertical conduit, wherein a length of the vertical conduit extends at least to the grain tank.

17. (Previously Presented) The system of Claim 4, further comprising:
an auger located in said horizontal conduit.

18. (New) The unloading system of Claim 11, further comprising:
a latch mechanism fixedly attached to the first portion of the vertical conduit, the latch mechanism configured to releasably attach the remaining portion of the vertical conduit to the first portion of the vertical conduit thereby allowing the remaining portion of the vertical conduit to pivot on the hinge joint about the horizontal pivot axis when the latch mechanism is released.